Rolling out Technology at Oak Ridge

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Primary Computational Resources

- 2006: ~55 TF Cray XT3, ~17 TF Cray X1E
- 2007: ~125 TF Cray XT3/4
- 2008: ~250TF Cray XT4
- 2009: ~1PF Cray system

Visualization Resources

- Dedicated visualization system
  - 58 node
  - dual opterons
  - NVIDIA 3000G/5950
  - Quadrics interconnect
  - ~8TB of shared disk
- Technology refresh in FY07/FY08

Getting Access

- Three methods:
  - INCITE allocation
  - Visualization collaboration project CSC030
  - Director's discretionary allocation

Director's Discretionary Allocation

- Cray has ~88 million CPU hours available
- 8.8 million CPU hours on the Cray for all "discretionary" use
- I will be applying for up to 800,000 hours for VACET use. I think 500,000 is more likely.

File systems

- Local storage (scratch) on visualization nodes
- Local Lustre store on Cray
- Local NFS system on vis cluster
- Cross-system NFS storage for application deployment and home directories
- Will be deploying multicluster Lustre system in the next 12 months